

SPECIAL MONTH ISSUE JULY AUGUST 1993

NEWSLETTER

DEDICATED TO SCIENTIFIC RESEARCH AND EDUCATION, INSPIRING RESPECT FOR THE NATURAL WORLD

M E M BE E G

THE MAGIC **OF SOCORRO ISLAND**

WITH DR. LUIS BAPTISTA JULY 14, 2 & 7:30 PM

Dr. Baptista, Chairman of the Academy's Ornithology and Mammology Department and one of our most popular lecturers, will present a slide-lecture program on the little known Revillagigedo Archipelago. This "Galapagos of the

Northern Hemisphere" is located 410 miles off the west coast of Mexico and is home to unique wild-

life, including a mockingbird thought to be extinct but which was recently rediscovered.

Socorro Island has been the center of research activity for the Academy since 1903 when our first expedition arrived in the region. Isla Socorro, the largest island in the Archipelago, is home to ten unique bird species, some of which are highly endangered. Dr. Baptista's main research interests are in systematics and behavior, with an emphasis in avian bioacoustics. He is a world authority on birdsong; specifically, how young birds learn their species' languages and develop regional dialects.

Members Meetings are free to members, and seating is on a first-come, first-served basis. Please show your card at the entrance to the Auditorium.



ISHI, THE LAST YAHI

A FILM BY PAMELA ROBERTS & JED RIFFE,

INTRODUCED BY PAMELA ROBERTS, AUGUST 11, 2 & 7:30 PM

This hour-long documentary film chronicles the remarkable and poignant life of Ishi, once known as the "last wild Indian in North America." His sudden appearance in 1911 stunned the country. His tribe was considered extinct, destroyed in the bloody massacres during the 1860's and 70's, and Ishi had been hiding for 40 years--the last of his tribe who refused to surrender.

Dr. Alfred Kroeber, who earlier was the Academy's first Curator of Anthropology, had been searching for years for "uncontaminated" Indians who could document aboriginal life in America. Kroeber invited Ishi to the United Anthropology Museums of San Francisco to live as an informant and teacher. While in San Francisco, Ishi's tireless dedication to recounting YAHI stories and demonstrating their traditional way of life, and his remarkable lack of bitterness towards the people who had destroyed his tribe, greatly impressed those who met him. Alfred Kroeber's wife, Theodora, brought Ishi's story to the public with three books including Ishi In Two Worlds: The Story of the Last Wild Indian in North America.

Pamela Roberts, President of Rattlesnake Productions, is a film director and producer whose non-profit film and video organization is dedicated to ethnic diversity and cultural preservation. She will introduce this moving documentary.

SPECIAL MEMBERS MEETING AUGUST 12, 2 & 7:30 PM

In celebration of the exhibit, "Birds of a Feather," we are pleased to present Maryjo Koch, author and illustrator of the book Bird Egg Feather Nest, published in cooperation with the National Audobon Society.

Maryjo Koch will discuss the process and techniques she used to illustrate her book and details about some of the birds she described.

Joining Maryjo will be an ornithologist from Richardson Bay Audobon Center and Sanctuary who will discuss the life of John James Audobon.

Maryjo's beautiful book is available in the Academy Store for \$24.95, along with an exclusive t-shirt, created by Maryjo for \$15.00. The author will sign books following both lectures.

*September Members Meetings on September 8 at 2 and 7 pm, will feature Dr. Dennis Breedlove, Academy botanist, presenting "A Walk in the Cloud Forest." Please note the evening program is one-half hour earlier than the usual 7:30



DEAR ACADEMY MEMBERS,

GRAYSON'S

DOVE

Over the last several years, the Academy has experienced phenomenal growth, and membership has grown to 22,000.

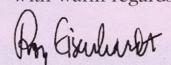
It is our goal to provide you, our members, with the highest quality benefits. This includes, of course, unlimited admission, a subscription to Pacific Discovery, Members lectures, discounts at the Academy Store and Cafe, and a host of other events and services.

As the Academy continues to grow, our operating costs in sustaining the highest quality services consistently rise. In order to meet these rising costs we must periodically increase our rates. It has been several years since we've raised our membership dues or admission prices. In June, admission to

the Academy for adults was raised from \$6 to \$7. In turn, membership dues will increase \$5 on each category of membership. In addition, a new category will be created, Dual Senior at \$35 (two cards). Guest admissions will be dropped from all categories, and in its place all categories of membership will be given four guest passes per year.

We appreciate your past support and look forward to your continued membership in the Academy for the exciting years ahead.

With warm regards,



Roy Eisenhardt / Executive Director

time.



Flat-Spired Three-Toothed Snail

Traversing across the continent for the last year, two Academy photographers have been actively documenting endangered species of the United States. Susan Middleton and David Liittschwager have been flying to distant corners of the country--capturing in beautiful photographs brief, magical moments in the lives of over 100 species of endangered plants and animals. These federally listed species are



Audubon's Crested Caracara

disappearing from our lands, our skies and our waters. The poignant portraits being created by these talented artists help to inspire people to save endangered species around the world.

American Airlines has graciously provided air travel for Susan and David as they journey to the varied landscapes of our country. From West Virginia to photograph the flat-spired, three-toothed snail, to Florida for the Florida panther and Audobon's crested caracara;



Florida Panther Cub

from the island of Hawaii to photograph the Mauna Kea silversword, to Sequim, Washington to photograph a grizzly bear, American Airlines has allowed these talented photographers quick and easy access to the unpredictable seasons of nature. The Academy is very grateful for their support. The Academy will premiere a national travelling exhibit of these photographs in the Fall of 1994, and a book featuring these striking portraits will be published by Chronicle Books simultaneously.

AmericanAirlines® AA

MORRISON PLANETARIUM



SKY SHOWS "TOUCH THE STARS" **NEW FAMILY SHOW**

Morrison Planetarium recently inaugurated a new show for the whole family as well as

camp groups, scout groups and school groups. A humorous and lighthearted show, "Touch the Stars" focuses on astronomy activities which the whole family can enjoy together. Learn when and where to look for planets; how to see the Earth rotate; how to chart the Moon's changing position and shape; how to observe Jupiter's moons and how to look for meteor showers.

This program doesn't end when the lights come up--every family takes away a 16-page booklet of astronomy experiments. The program is shown at 11 am on weekdays through July and August, and 11 am on weekends throughout the year. Price is \$1.50. Children under 5 are free when seated on the lap of an adult.

"Touch the Stars" is made possible by a generous grant from The Stanley S. Langendorf Foundation.

In addition to this new show, other sky shows continuing for the summer are: "Starbirds" shown at 12:30 and 2 pm on weekdays, and 2 pm on weekends; "Nights of Ancient Days" shown at 3:30 pm on weekdays, and 1 & 3 pm on weekends; "Startalk" shown at 12:30 on weekdays and noon on weekends.

Call 750-7141 for more information.

TRADITIONAL ARTS

Enjoy diverse cultures with the Academy's Traditional Arts Program presented on Saturdays at 1 pm. Call 750-7164 for more information.

July 3 -- No Program

July 10 -- Lewis Mahlmann, the resident puppeteer at Children's Fairyland in Oakland for the last 27 years, brings a selection of marionettes, rod and hand puppets to show how they are manipulated. He'll also perform the Grimm's tale "The Frog Prince." Suitable for children of all ages!

July 17 -- Leonidas Kassapides, a native of Thessalonika, Greece, and the Paranoix Poor Theatre Company present an Englishlanguage version of "Metamorphosis"-a Greek shadow puppet play in the karaghiozis folkloric tradition.

July 24 -- Using a small treadle loom, textile artist Jan Cook demonstrates the weave structure of Scottish highland tartans and discusses the historical development of clan patterns.

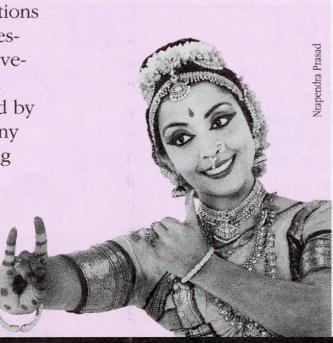
July 31 -- On tour from India, Viji Prakash performs bharatanatyam--classical dance-drama originating in the temples of South India-which interprets ancient Hindu epics depicting the lives of Krishna and Shiva. The narrative style communicates a spectrum of emotions through graceful hand gestures, expressive eye movements and fast footwork. The artist is accompanied by the Shakti Dance company and instruments including the mrdrangam (drum) and nattuvangam (cymbals).

August 7 -- The Coastal Pomo Dancers from Stewarts Point Reservation perform ceremonial dances including the toto kobo or feather dance, the deer dance, the hummingbird dance and the whistle dance.

August 14 -- David Smith, a member of the Kashaya Pomo Indian tribe, demonstrates the process of making acorn mush. Traditionally a nourishing food staple of many California Indian tribes, the acorn mush will be ground from tanbark oak (Lithocarpus densiflora), native to the coastal ranges of Northern California.

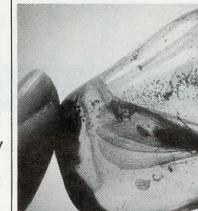
August 21 -- The trickster character appears in folktales from many cultures, often with a moral lesson to be learned. Storyteller Kate Frankel focuses on the trickster in her selection of tales from around the world.

August 28 -- The Barbary Coast Cloggers perform precision clogging--a style of clogging featuring energetic and fast footwork, and synchronized movements of the dancers.





Dinosaurs Academy on with the exciting new Jurassic! scientific fact using rea



casts, models and videos. Actual foss the Academy, the American Museum Berkeley are featured.

The highlight of Jurassic! is a l rex skeleton, measuring 15 feet h huge skeleton, which is a cast of two rex skeleton has never been discove assembled and displayed in the Four

> Can dinosaurs be cloned fron from blood sucking insects trapp Jurassic! presents current scientif fascinating field. Photos and a m DNA, loaned by Genentech, Inc. played. Amber specimens ember will help explain DNA research.

In the early 1920's, the Ameri earthed the first dinosaur eggs in of Mongolia. New findings from expedition to the Gobi Desert ar this new exhibit. The fossil skull atops and a Protoceratops egg are jux dinosaur fossils include a Triceratops dinosaur skull and a Stegosaurus tail of meat-eating dinosaurs are compar

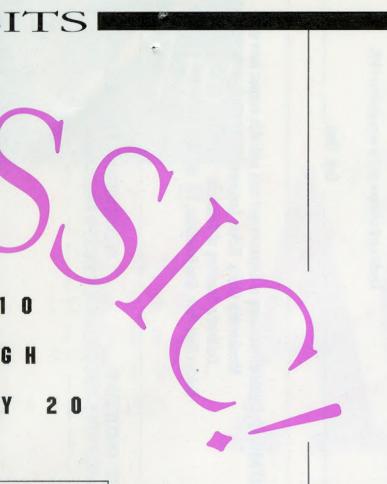
plant-eating Triceratops. One of the villains of Michael Cric Jurassic Park, the Velociraptor, is rep exhibit with a cast of a fossil skull ar vicious dinosaur. Touchable specime claw and a sauropod leg bone collec of the Junior Academy will be includ will show when these dinosaurs actu of those in the book actually occurre ceous or Triassic periods. Visitors can mation about dinosaurs in the Acade hall, Life Through Time. The Acaden thank Universal Pictures and the AM their assistance and cooperation with Jurassic Park on June 15th.

Come to the Academy to enjoy th saur exhibits in Northern California.



THE ACADEMY

Jurassic! Store-Jurassic! Store lo dinosaur produc T-shirts for adult dino games and





invade the July 10th monstrously exhibit Explore and fiction fossils, fossil

Photo left,

© 1993 Ed

courtesy

STEGOSAURUS

Weighed up to two

tons. Found in Colorado, Okalahoma, Utah and

Wyoming.

TYRANNOSAURUS

Weighed seven tons.

Found in western North

America and China.

TRICERATOPS

Weighed six tons.

Found from Alberta

to Colorado, and

Saskatchewan to

South Dakota.

American

Museum of

Bridges, Amber

Natural History

ls from the collections of of Natural History, and UC

fe-size Tyrannosaurus gh by 45 feet long! This partial skeletons (a full T.

ed in its entirety), will be tain Courtyard. DNA extracted ed in amber? c research in this odel of actual

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y would like to C Kabuki 8 Theaters for the Members Screening of

e most informative dino-

STORE

The Academy Store will have a special cated in Linking Hall featuring all new is for the whole family. Items include: s and children, books, videos, amber, toys, jewelry and models

E C U R E



"BEHIND THE SACRED MASK"

WITH PETER GOLD-AUGUST 31, 7:30 PM

Throughout the world, human cultures have created and used masks in search of the sacred. Masks embody deities and spirits which themselves signify universal qualities and powers existing in the cosmos beyond and the universe within. Masks serve as ritual tools for the purpose of maintaining or establishing this "state of the sacred."

In his vivid slide lecture, anthropologist Peter Gold introduces us to the meaning and ritual use of sacred masks from several important cultural traditions on both sides of the Bering Strait. They include shaman vision masks of the Yupik Inuit (Alaskan Eskimo); kachina ritual masks of the Hopi and Pueblo Indians, and tutelary deity masks of the Apache and Navajo Indians (Southwest U.S.); and the masked pantheon of Buddhism and the pre-Buddhist Bön religion (Tibet).

COST: \$6/\$8

"LIFESTYLES IN THE DEEP SEA: THE COLD & SLUGGISH VS. THE HOT & LIVELY"

WITH DR. GEORGE SOMERO-SEPTEMBER 18, 6:30 PM**

The California Academy of Sciences and Oregon State University proudly present an intriguing program which contrasts life in the typical deep sea with life at the hydrothermal vents (deep sea hot springs). Dr. George Somero will contrast these two environments to show how physical and chemical characteristics of the environment shape the properties of organisms. Animals which live in the deep sea have adaptations which allow these species to cope with extremes of pressure and temperature. The "slow" species of most of the deep sea are slow, not chiefly because of the cold, but as a result of the limited food supply. They have developed unique feeding strategies and other unusual adaptations.

In contrast to the common, cold areas of the deep sea, the hot springs found at spreading centers have abundant life. Animals in these areas are active and plentiful primarily due to the rich supply of geochemical energy, largely in the form of sulfide. Sulfide replaces sunlight as the energy source for these animals and they have developed symbiotic, sulfide-burning bacteria which provide their animal hosts with foodstuffs. These novel life forms were discovered fairly recently, and their study has provided insights into new fundamental organism designs.

Dr. Somero is a member of the National Academy of Sciences and is the Gladys Valley Professor of Marine Biology at Oregon State University.

**Please note early time of lecture.

COST: \$6/\$8

"FALSE FACES: THE FUNCTION OF MASKS IN ANCIENT MESOAMERICA"

WITH DR. CECELIA KLEIN-SEPTEMBER 24, 2-4 PM

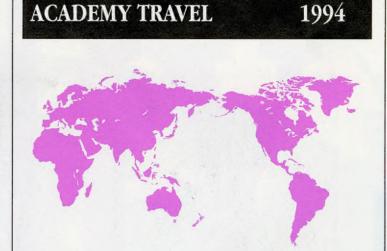
The California Academy of Sciences and The Docent Council of the M.H. deYoung Memorial Museum are proud to present Dr. Cecelia Klein, Professor of Art History at UCLA, discussing the use of masks in ancient Mesoamerica.

At UCLA, Dr. Klein teaches Pre-Columbian Art, Oceanic Art and Native North American Art. Her research interests include Aztec art, ideology, politics and social change in Aztec art; and the historiography of "Primitive" art.

Her lecture on masks of ancient Mesoamerica is a docent training class open to the public. The audience will be invited to the deYoung's "Art of Americas" Gallery after the lecture to view their Mesoamerican masks.

COST: ACADEMY & SOCIETY MEMBERS \$3/NON-MEMBERS \$5

For these lectures please use the coupon on the back page to order your tickets. Call 750-7128 for recorded information.



ANTARCTICA, S. GEORGIA & FALKLANDS CRUISE Dec 20, 1993-January 10 with Dr. John McCosker

THE MAYA CENTERS OF BELIZE (WITH EXTENSION TO TIKAL) February 9-16 (Extension February 16-19) with Dr. Richard Hansen and Bob Glavin

FOODS OF ITALY Spring with Daphne Derven and Rolando Beramundi

SEA OF CORTEZ CRUISE April 10-17 with Dr. Jim Kelley

FOLK ART AND ANTIQUITIES OF TURKEY May with June Anderson

THE GALAPAGOS ISLANDS CRUISE AND ANDEAN HIGHLANDS May 13-25 with Dr. Terry Gosliner

SEA KAYAKING IN ALASKA June with Dr. Dave Kavanaugh

REDISCOVERING RUSSIA & THE BALTICS CRUISE June 5-21

ALASKA OVERLAND July with Dr. Dave Kavanaugh

RAFTING ON THE MIDDLE FORK, SALMON RIVER July 31-August 5 with Greg deNevers

MARITIME CANADA, BAY OF FUNDY AND COASTAL MAINE CRUISE September 3-17 with Dr. Rich Mooi

THE ISLANDS OF INDONESIA CRUISE September 11-24 with Dr. Jim Kelley

EXPLORING THE PACIFIC NORTHWEST CRUISE September 14-19 with Brian Gibeson

NATURAL WONDERS OF WESTERN AUSTRALIA September 16-October 2 with Dr. Frank Almeda

EXPLORING THE UPPER AMAZON CRUISE October 31-November 7 with Dr. Carl Feraris

INDIA, NEPAL AND SRI LANKA Fall with Dr. Bob Drewes

Call 750-7348 for details about these fascinating trips.

SAN FRANCISCO **GEM AND MINERAL SHOW**

August 7 and 8

The California Academy of Sciences will exhibit outstanding specimens of jade from near and far to emphasize the theme "Shades of Jade" at the 39th annual Golden Gateway to Gems show of the San Francisco Gem & Mineral Society. There will be displays of lapidary, intarsia and faceting, collections of minerals from around the world, and the Academy's Dr. Jean DeMouthe will discuss jade. The show is at the San Francisco

County Fair Building in Golden Gate Park. Hours: 10 am-6 pm, Saturday, August 7; 10 am-5 pm, Sunday, August 8. Academy Members receive a 50-cent discount on the admission price of \$3.50.



AUGUST THURSDAY TUESDAY WEDNESDAY **FRIDAY SATURDAY MONDAY SUNDAY** Traditional Arts, Free First Pomo dances, 1 pm Wednesday **ENJOY "BIRDS OF** THE BIODIVERSITY A FEATHER" San Francisco Gem CENTER a beautiful, and Mineral Show has moved into THE ACADEMY new exhibit Cowell Hall and is Traditional Members San Francisco Members BOOKSTORE which now open everyday Arts, Acorn Meetings, Meetings, Gem and has relocated to explores from 10 am-4 pm. "Ishi," "Bird Egg mush, 1 pm the east side of Mineral Show the intriguing Feather Nest," 2 & 7:30 pm Cowell Hall, near world of 2 & 7:30 pm the main Store feathers and and features Traditional flight. Arts, Storyfascinating telling, 1 pm books about LASERIUM SHOWS Wednesday-Sunday science and the natural world. Evenings 26 Traditional 27 Call 750-7138 22 Arts, Cloggers, 1 pm **PLANETARIUM** SEPTEMBER DATES TO REMEMBER **SKY SHOWS** Lecture, September 18, Lecture, on weekends "Behind the "Lifestyles in the Deep Sea," 6:30 pm Sacred Mask," September 24, Lecture, 7:30 pm and 4 pm. "False Faces," 2:00-4:00 pm